



MINERALS
EDUCATION
VICTORIA

Treasures from the Earth

ACTIVITY MATRIX : STUDENT EDITION

	Verbal / Linguistic	Logical / Mathematical	Visual / Spatial	Body / Kinesthetic	Musical / Rhythmic	Interpersonal	Intrapersonal	Naturalist
Remembering 1 POINT	1. Brainstorm words relating to mining: ABC of minerals / resources / equipment	2. Construct a table which lists 4 mining companies in Australia and the resources they mine.	3. On a map of Australia, locate where different minerals are found.	4. Identify the difference between rocks and minerals.	5. List 6 interesting facts about music and dancing on the goldfields.	6. List 10 things people would never make out of gold.	7. Make a quiz of 10 fascinating facts about minerals in Australia.	8. Observe a variety of rocks. Distinguish features of different rocks.
Understanding 1 POINT	9. Create a concept map to summarise the uses / properties of gold.	10. Cut and paste a flow chart which illustrates how resources are mined and the landscape altered.	11. Create a timeline of gold discovery in Australia.	12. Play the 'body' timeline game to create a timeline of significant gold events in Victoria.	13. Retell an event from your topic using a recorded tape and sound effects. eg. Life on the goldfields in the 1850s.	14. Play the game 'Minerals Pictionary' to revise vocabulary associated with mining and the minerals industry.	15. If you could make one part of your body from gold, what would it be? Justify your choice / anticipate problems.	16. Complete a data and picture chart of three different rocks.
Applying 2 POINTS	17. Make a word search which includes at least 20 different rocks and minerals.	18. Collect data regarding the price of a resource / commodity OR a mining company. Prepare a graph to show how the price of the resource or company changes over a week.	19. On a map of Australia, label places where gold has been mined or is being mined today.	20. Make a model to show the layers of the Earth.	21. Using metal instruments perform a piece of music individually or in a group	22. Play the game "Where will I find Australian minerals" to consolidate knowledge of location of minerals.	23. Describe a significant event that occurred on the goldfields as if you were there at the time.	24. Create a flow chart about the formation of different types of rocks.

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Analysing 2 POINTS	25. Consider how one mining company digs and repairs the land.	26. Create a mind map on the characteristics / properties of any mineral mined in Australia.	27. Create a venn diagram comparing two different metals.	28. Choose 10 items made from metal and play charades to name each item	29. Write and perform an advertising jingle / rap composition to highlight one mineral you have learnt about.	30. Identify the positive and negative effects of mining on people in 'resource towns'.	31. Predict what questions would need to be asked prior to action if a precious resource was found under your school.	32. Collect and display 10 different rocks found in your area. Label and describe each specimen.
Evaluating 3 POINTS	33. Complete a PMI on gold mining in a gold town that you have learnt about.	34. Write a report which considers the options to mining coal in Victoria.	35. Choose an item from the kitchen or a piece of sporting equipment – what metal(s) is used in its production and why.	36. Build a working model of equipment used to extract resources from the ground.	37. Evaluate the use of a metal in a musical instrument e.g steel in a steel string guitar.	38. Evaluate the future use of a disused quarry using deBono's thinking hats.	39. Outline the contribution an Australian geologist or mineralogist or metallurgist has made in their field of work.	40. Visit a local garden supplier. Evaluate the uses of stones, slate, marble, granite in and around the home.
Creating 3 POINTS	41. Create a brochure which describes the work of people who work in mining e.g. geologist, metallurgist, mining engineer, miner.	42. Design a slogan or bumper sticker for any mineral.	43. Build a working model of a device that was used in the goldrush days.	44. Use magazines, your own drawings, digital photos to make a collage of lots of products made from rocks in the kitchen, bathroom, laundry, garage, bedroom.	45. Create your own musical instrument using at least two different metals.	46. Create an advertising brochure or power point which explains your choice to turn a disused quarry into a	47. Create a poster on any topic with GOLD in its title. E.g GOLD teeth, GOLD medals.	48. Create a wire sculpture / nail pattern or painted stone.

